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1 March 1963

MEMORANDUM FOR : Chief, Materiel Division, Office of Special Activities

SUBJECT : IDEALIST DC Generator

1. As further to the continuing investigation of the DC generator problem, Kelly Johnson called me the morning of 28 February, stating that LAC's investigation had continued through the night in conjunction with [] and certain other facts about the questionable drive bearings were as follows:

[]

[] It was Kelly's view that the [] purchasing department had opted for this source on a cost basis, since the specification as written mentioned "Pfaffner bearings or equivalent."

b. Kelly said that LAC would be continuing their testing on generators equipped with [] bearing, including instrumentation designed to tell them at exactly what point in temperature and time the generator fails when run at spec RPM to destruction. He added that he was seriously thinking of installing something analogous to the supercharger drive temperature indicator on the Connie in the IDEALIST aircraft. This would give a cockpit light to the pilot when the DC generator began to experience over-loading or over-temping so that corrective action might be taken.

2. Kelly mentioned that unless and until the present generators were returned to spec, it would be impossible to operate the mission aircraft and

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the [] simultaneously, since the added load would probably hasten the failure of the generator at altitude. He then added that with the cooling kit presently installed in Articles 352, 358, and 259 when the generator was requalified with the Pfaffner bearing, it should have little difficulty handling the added load imposed by the ECM systems. I should add that a full requalification of the generator, of course, implies abandonment of the important high temperature grease which also bears on the problem.

3. Kelly said that he still hoped to have four recalled and requalified generators ready for movement to the Far East on or about 2 March. I told him that we would furnish a courier for this purpose, and I subsequently alerted [] to this requirement.

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JAMES A. CUNNINGHAM, JR.
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(Special Activities)

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